



Proximity Sensor, M30, analog, S_n=1-25mm, 15-30VDC, 4-20mA, line 2m

Part no. E59-A30C125C02-C1
Catalog No. 166686
Alternate Catalog No. E59-A30C125C02-C1

Delivery program

Basic function			Inductive Sensors
Product range			E59 AccuProx Series
Description			Current output (4 - 20 mA)
Connection			3-wire/4-wire
Design (outer dimensions)		mm	M30 x 1.5
Rated operational voltage	U _e		15 - 30 V DC
Rated switching distance	S _n	mm	1 - 25
Type of mounting			Non-flush
Switching type			Analog
For connection of:			2 m connection cable
Material			Stainless steel
Degree of Protection			IP67

Technical data

General

Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP67

Characteristics

Repetition accuracy of S _n		%	1
Temperature drift of S _n		%	10
Rated operational voltage	U _e		15 - 30 V DC
Switching state display		LED	Red
Operating voltage display		LED	Green
Connection			3-wire/4-wire
Style			
Design (outer dimensions)		mm	M30 x 1.5
For connection of:			2 m connection cable
Material			Stainless steel

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-40
Operating ambient temperature max.		°C	70

Technical data ETIM 7.0

Sensors (EG000026) / Inductive proximity switch (EC002714)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-01-01 [AGZ376015])			
Width sensor		mm	0
Height of sensor		mm	0
Length of sensor		mm	69.6
Diameter sensor		mm	30
Mechanical mounting condition for sensor			Not flat
Switching distance		mm	25

Suitable for safety functions			No
Type of switch function			Other
Type of switching output			Other
Type of electric connection			Cable
Number of semiconductor outputs with signalling function			0
Number of contact energized outputs with signalling function			0
Number of protected semiconductor outputs			0
Number of protected contact energized outputs			0
Type of actuation			Metallic Target
Type of interface			None
Type of interface for safety communication			None
Construction type housing			Cylinder, screw-thread
Coating housing			Other
Cascadable			No
Category according to EN 954-1			B
SIL according to IEC 61508			None
Performance level acc. EN ISO 13849-1			None
Max. output current at protected output		mA	20
Supply voltage		V	15 - 30
Rated control supply voltage Us at AC 50HZ		V	0 - 0
Rated control supply voltage Us at AC 60HZ		V	0 - 0
Rated control supply voltage Us at DC		V	15 - 30
Voltage type			DC
Switching frequency		Hz	100
With monitoring function downstream switching devices			No
Material housing			Metal
Compression-resistant			No
Explosion safety category for gas			None
Explosion safety category for dust			None
Interference resistance to magnetic fields			

Approvals

Product Standards			UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.			E166051
UL Category Control No.			NRKH, NRKH7
CSA File No.			50513
CSA Class No.			3211-03
North America Certification			UL listed, CSA certified
Max. Voltage Rating			30 V DC
Degree of Protection			IEC: IP67; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

Additional product information (links)

IL05301010Z AccuProx Series Analog Inductive Sensors

IL05301010Z AccuProx Series Analog Inductive Sensors https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301010Z2018_05.pdf